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PTRF Antibody (N-term) Blocking Peptide

Synthetic peptide
Catalog # BP7421a

Specification

PTRF Antibody (N-term) Blocking Peptide - Product Information

Primary Accession Q6NZI2

PTRF Antibody (N-term) Blocking Peptide - Additional Information

Gene ID 284119

Other Names
Polymerase I and transcript release factor, Cavin-1, PTRF {ECO:0000312|EMBL:AAH661231}

Target/Specificity
The synthetic peptide sequence used to generate the antibody AP7421a was selected from the N-term region of human PTRF. A 10 to 100 fold molar excess to antibody is recommended. Precise conditions should be optimized for a particular assay.

Format
Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage
Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions
This product is for research use only. Not for use in diagnostic or therapeutic procedures.

PTRF Antibody (N-term) Blocking Peptide - Protein Information

Name CAVIN1 (HGNC:9688)

Synonyms PTRF

Function
Plays an important role in caveolae formation and organization. Essential for the formation of caveolae in all tissues (PubMed:18056712, PubMed:18191225, PubMed:19726876). Core component of the CAVIN complex which is essential for recruitment of the complex to the caveolae in presence of calveolin-1 (CAV1). Essential for normal oligomerization of CAV1. Promotes ribosomal transcriptional activity in response to metabolic challenges in the adipocytes and plays an important role in the formation of the ribosomal transcriptional loop. Dissociates transcription complexes paused by DNA-bound TTF1, thereby releasing both RNA polymerase I and pre-RNA from the template (By similarity) (PubMed:<a

href="http://www.uniprot.org/citations/18056712" target="_blank">18056712, PubMed:18191225, PubMed:19726876). The caveolae biogenesis pathway is required for the secretion of proteins such as GASK1A (By similarity).

Cellular Location
Membrane, caveola. Cell membrane. Microsome. Endoplasmic reticulum {ECO:0000250|UniProtKB:P85125}. Cytoplasm, cytosol. Mitochondrion. Nucleus
Note=Translocates to the cytoplasm from the caveolae upon insulin stimulation (PubMed:17026959). Colocalizes with CAV1 in lipid rafts in adipocytes. Localizes in the caveolae in a caveolin-dependent manner (By similarity). {ECO:0000250|UniProtKB:O54724, ECO:0000269|PubMed:17026959}

PTRF Antibody (N-term) Blocking Peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Blocking Peptides

PTRF Antibody (N-term) Blocking Peptide - Images

PTRF Antibody (N-term) Blocking Peptide - Background

Termination of transcription by RNA polymerase I involves pausing of transcription by TTF1, and the dissociation of the transcription complex, releasing pre-rRNA and RNA polymerase I from the template. PTRF is required for dissociation of the ternary transcription complex.

PTRF Antibody (N-term) Blocking Peptide - References

Aboulaich,N., Biochem. Biophys. Res. Commun. 350 (3), 657-661 (2006)Aboulaich,N., Biochem. J. 383 (PT 2), 237-248 (2004)Hasegawa,T., Biochem. J. 347 PT 1, 55-59 (2000)